

IN THE CLAIMS

Please cancel Claim 12 without prejudice as follows:

1. (Original) A receiver comprising:

a radio frequency mixer;

an intermediate frequency filter;

an amplifier;

characterized in that:

a first lowpass analog-to-digital converter is directly connected to said amplifier;

a second lowpass analog-to-digital converter is directly connected to said amplifier; and

a digital signal processor connected to said first and second lowpass analog-to-digital converters.

2. (Original) The receiver according to claim 1 wherein said receiver forms a part of a communications device.

3. (Original) The receiver according to claim 2 wherein said communications device comprises a cellular phone.

4. (Original) The receiver according to claim 2 wherein said communications device comprises a wireless device.

5. (Original) The receiver according to claim 2 wherein said communications device comprises a code division multiple access (CDMA) device.

6. (Original) The receiver according to claim 2 wherein said communications device comprises a time division multiple access (TDMA) device.

7. (Original) The receiver according to claim 1 further comprising a radio frequency filter.

8. (Original) The receiver according to claim 7 wherein said radio frequency filter comprises a surface acoustic wave filter.

9. (Original) The receiver according to claim 1 wherein said intermediate frequency filter comprises a surface acoustic wave filter.

10. (Original) The receiver according to claim 1 wherein said amplifier comprises a variable gain amplifier.

11. (Original) The receiver according to claim 1 wherein said first and second lowpass analog-to-digital converters comprise Sigma Delta analog-to-digital converters.

12. (Cancelled)

13. (Original) A method for direct sampling of an intermediate frequency signal in a receiver comprising:

- receiving a signal;
- converting said signal to an intermediate frequency signal;
- filtering said intermediate frequency signal;
- amplifying said filtered intermediate frequency signal;
- characterized in directly sampling said amplified intermediate frequency signal; and
- processing said directly sampled signal with a digital signal processor.

14. (Original) The method according to claim 13 wherein said direct sampling comprises:

- sampling a first channel at a predetermined time; and
- sampling a second channel a quarter of the intermediate frequency carrier period after said sampling of said first channel.

15. (Original) The method according to claim 13 wherein said direct sampling is accomplished with a pair of lowpass analog-to-digital converters.

16. (Original) The method according to claim 15 wherein said lowpass analog-to-digital converters comprise Sigma Delta analog-to-digital converters.

17. (Original) The method according to claim 13 wherein said direct sampling is accomplished with a single flash-type lowpass analog-to-digital converter.